

What is claimed is:

1. A sheet supply apparatus for supplying a sheet to a predetermined processing position, comprising:

a sheet supply tray for stacking sheets,

5 sheet feeding means disposed adjacent to the sheet supply tray for feeding the sheets on the sheet supply tray one by one,

register means for aligning one of the sheets transferred by the sheet feeding means, a leading end of the sheet abutting against the register means for alignment,

10 setting means for setting a feeding amount of the sheet fed by the sheet feeding means, said setting means setting a first feeding amount that the sheet feeding means feeds the sheet to the register means when the sheets on the sheet supply tray have a same width in a direction perpendicular to a feeding direction
15 of the sheets, and a second feeding amount larger than the first feeding amount when the sheets on the sheet supply tray have different widths, and

control means electrically connected to the sheet feeding means and setting means for controlling the sheet feeding means
20 to feed the sheet according to one of the first feeding amount and the second feeding amount set by the setting means.

2. A sheet supply apparatus according to claim 1, further comprising receiving means for receiving a mixed size mode signal
25 when the sheets on the sheet supply tray have the different widths, said setting means setting the second feeding amount when the receiving means receives the mixed size mode signal.

3. A sheet supply apparatus according to claim 2, wherein said setting means sets the first feeding amount when the receiving means does not receive the mixed size mode signal.

4. A sheet supply apparatus according to claim 2, wherein said register means comprises a pair of rollers so that the leading edge of the sheet abuts against a nipping portion of the pair of the rollers.

5. A sheet supply apparatus for supplying a sheet to a predetermined processing position, comprising:

a sheet supply tray for stacking sheets,

sheet feeding means disposed adjacent to the sheet supply tray for separating and feeding the sheets on the sheet supply tray,

register means for aligning the sheet by abutting against a leading edge of the sheet,

detection means arranged between the sheet feeding means and the register means for detecting the leading edge of the sheet,

receiving means for receiving a mixed size mode signal when the sheets on the sheet supply tray have different widths in a direction perpendicular to a sheet feed direction, and

control means electrically connected to the sheet feeding means, detection means and receiving means for controlling the

sheet feeding means to feed the sheet for a predetermined amount and to stop the sheet after the detecting means detects the leading edge of the sheet so that the leading edge of the sheet abuts against the register means, said control means controlling the sheet feeding means to feed the sheet for an amount larger

than the predetermined amount when the receiving means receives the mixed size mode signal.

6. A sheet supply apparatus according to claim 5, wherein said control means controls the sheet feeding means to feed the sheet for the amount larger than the predetermined amount by a constant amount when the receiving means receives the mixed size mode signal.

7. A sheet supply apparatus according to claim 5, further comprising selection means installed in an external device for selecting a mixed size mode, said selecting means sending the mixed size mode signal to the receiving means.

8. A sheet supply apparatus according to claim 5, wherein said sheet feeding means includes a draw roller for drawing the sheets from the sheet supply tray, and a feed roller and a separation member which separate and feed the sheets sent from the draw roller, said draw roller, said sheet feed roller and said separation member being disposed substantially at a center in a width direction of the sheet.

9. A sheet supply apparatus according to claim 5, further comprising a pair of side regulating plates disposed on the sheet supply tray for regulating two side edges of the sheet with a center of the sheet as a reference.

10. A sheet supply apparatus for supplying a sheet to a predetermined processing position, comprising:

a sheet supply tray for stacking sheets,

sheet feeding means disposed adjacent to the sheet supply tray for separating and feeding the sheets on the sheet supply tray,

5 register means for aligning the sheet by abutting against a leading edge of the sheet,

adjusting means for adjusting a feeding amount of the sheet that the sheet feeding means feeds to abut against the register means after the detection means detects the leading edge of the sheet,

10 receiving means for receiving a mixed size mode signal when the sheets on the sheet supply tray have different widths in a direction perpendicular to a sheet feeding direction, and

control means electrically connected to the sheet feeding means, adjusting means, and receiving means for controlling the
15 sheet feeding means to feed the sheet, said controlling means feeding the sheet in an amount larger than the feeding amount adjusted by the adjusting means when the receiving means receives the mixed size mode signal.

20 11. A sheet supply apparatus according to claim 10, further comprising selection means installed in an external device for selecting a mixed size mode to send the mixed size mode signal to the receiving means.

25 12. A sheet supply apparatus according to claim 10, further comprising input means installed in an external device for inputting adjusting data, said adjusting means adjusting the feeding amount based on the adjusting data.

13. A sheet supply apparatus according to claim 12, wherein said adjusting means calculates the feeding amount according to an original feeding amount and the adjusting data from the input means.

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14. A sheet supply apparatus according to claim 10, wherein said control means controls the sheet feeding means to feed the sheet for the amount larger than the feeding amount adjusted by the adjusting means by a constant amount when the receiving means
10 receives the mixed size mode signal.